	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Culvert Coping		2x2	6.50	0.60	0.10	1.56		
							1.56	4690.50	**7317.00**
	Basic Rate	4425.00							
	Area Weightage @ 6%	265.50							
	Total	**4690.50**							
9	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	For Culvert Covering Slab		2	6.50		0.60	7.80		
			4	6.50		0.25	6.50		
			4	1.80		0.25	1.80		
							16.10	271.08	**4364.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14**	Cum							
	Culvert Covering Slab		2	6.50	1.80	0.25	5.85		
							5.85	5639.76	**32993.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14 TMT bar Fe 500**	Qntl							
			0.90	5.85			5.27		
							5.27	7450.92	**39229.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92							
	Total	**7450.92**							
12	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.3 / PWD SR 2013-14**	Sqm							
			1	220.00	5.50		1210.00		
			1	100.00	5.50		550.00		
			2	60.00	5.50		660.00		
							2420.00	72.79	**176157.00**
	Basic Rate	67.40							
	Area Weightage @ 8%	5.39							
	Total	**72.79**							
13	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P. 170 / I. 20.18) PWD SR - 2013-14.**	Cum							
			1	220.00	5.50	0.15	181.50		
			1	100.00	5.50	0.15	82.50		
			2	60.00	5.50	0.15	99.00		
							363.00		
	~~Add Extra for Road Cutting Portion @ 10%~~						~~36.30~~		
							399.30	1121.04	**447631.00**
	Basic Rate	1038.00					363.00		406937.5
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
			1	220.00	5.50		1210.00		
			1	100.00	5.50		550.00		
			2	60.00	5.50		660.00		
							2420.00	10.53	**25483.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
15	KSRRB 500-5: providing and applying primer coat from 12.2 to 14.6kg per 10 sqm for surfaces of high porosity over prepared surface of granular base with cut back M.C.-70 or any other bitumen mixed with diesel at 13 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 175 / Item No. 21.5 / PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 13				2420.00		
							2420.00	142.07	**343819.00**
	Basic Rate	131.55							
	Area Weightage @ 8%	10.52							
	Total	**142.07**							
16	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specificationsWith 60/70 grade bitumen using 40-60 HMP, **No. 178 / Item No. 21.20.4 / PWD SR 2013-14.**	Cum							
			1	220.00	5.50	0.025	30.25		
			1	100.00	5.50	0.025	13.75		
			2	60.00	5.50	0.025	16.50		
							60.50	9981.36	**603872.00**
	Basic Rate	9242.00							
	Area Weightage @ 8%	739.36							
	Total	**9981.36**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				404.77	72.71	29429.00
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	72.71							
	1·1 of Third party charges								20,000=00.
18	Miscellaneous and other Charges	L/S							1946.00
									22639.5.
								Total	2000000.00
	(Rs. Twenty Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2013-14 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
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Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

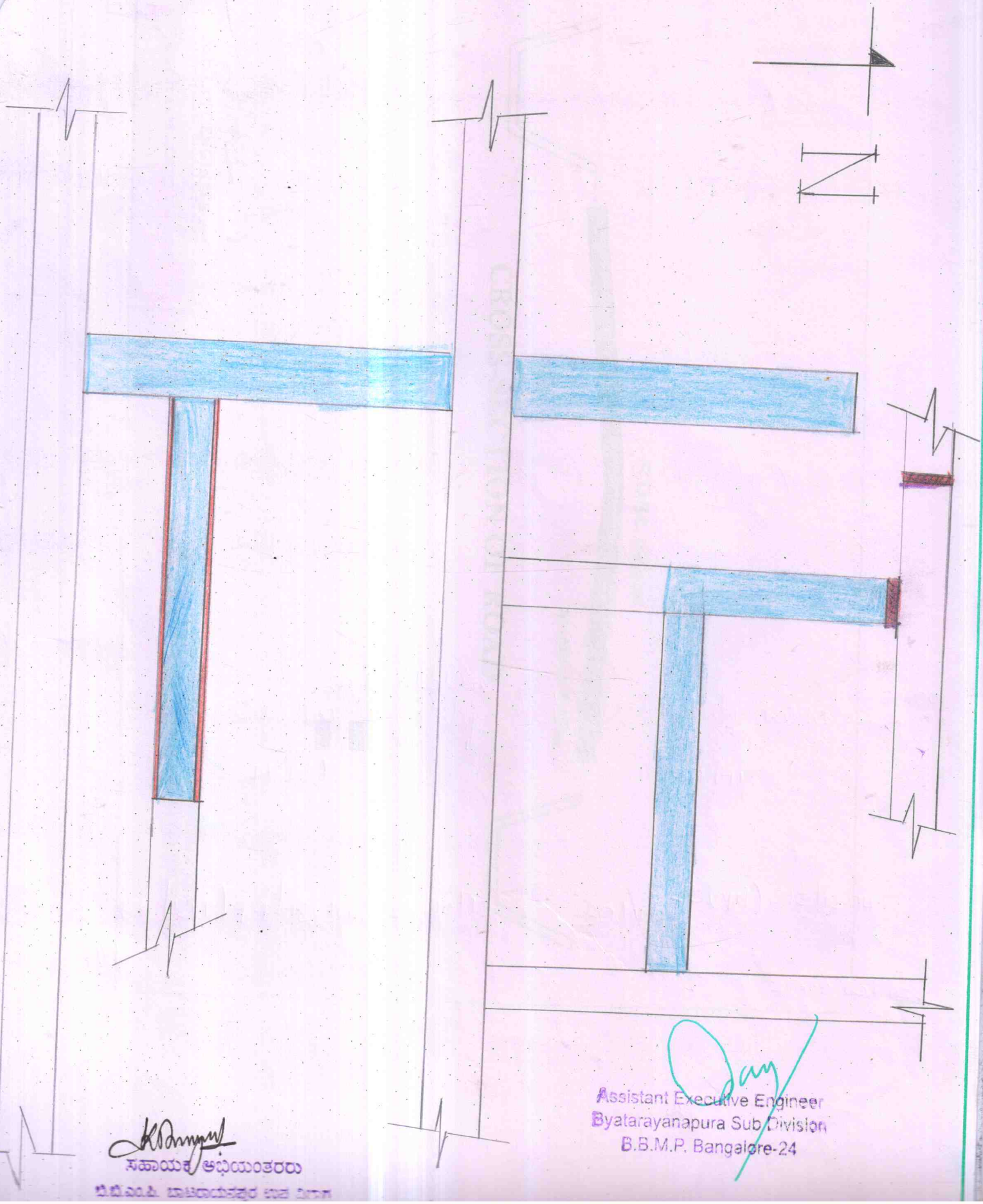
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 20.00 lakhs
Twenty lakhs only
P1771
Registered as EE ( ) No ...9...
Subject to conditions contained in
enclosed memo No. EE/BTP/99/13-14, 29/10/13
Dt.
AEE
EE (BTP.Div.)

ADMINISTRATIVELY SANCTIONED FOR Rs. 20.00
Rupees Twenty lakhs only
Under P1771
Registered as EE ( ) No ...9...
Subject to conditions contained in
enclosed memo No. TC (Yel) 313/13-14
Dt. 30/10/13
Estimate A/Sanctione d
No
Dated
Rs. 20.00 lakhs.

30/10/13.
Joint Commissioner
(Yelahanka Zone)
BBMP, Bangalore-64

Improvements to Roads and Drains at Bhuvaneshwarinagara in Ward No.06 Byatarayanapura Sub Division



Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

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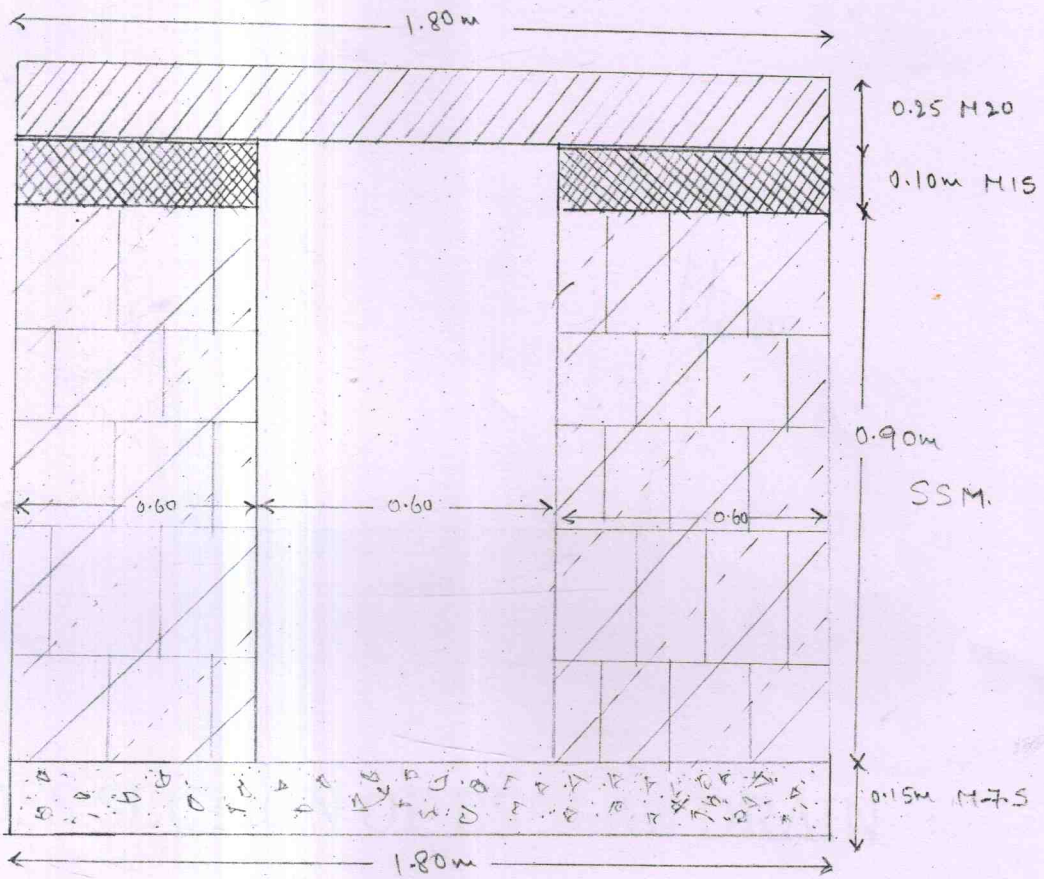
CROSS-SECTION OF ROAD

INDEX

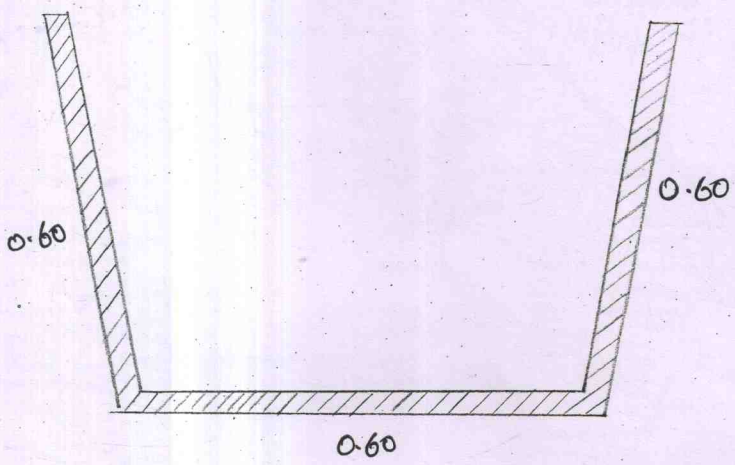
ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
BYATARAYANAPURA SUB DIVISION.



CROSS SECTION OF CULVERT

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24



CROSS SECTION OF BS SLAB DRAIN

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

152 - BYATARAYANAPURA AC
WARD NAME : 6 - THANISANDRA

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಬ್ಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24

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- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
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